

101
Mask Design System

FIGURE 1

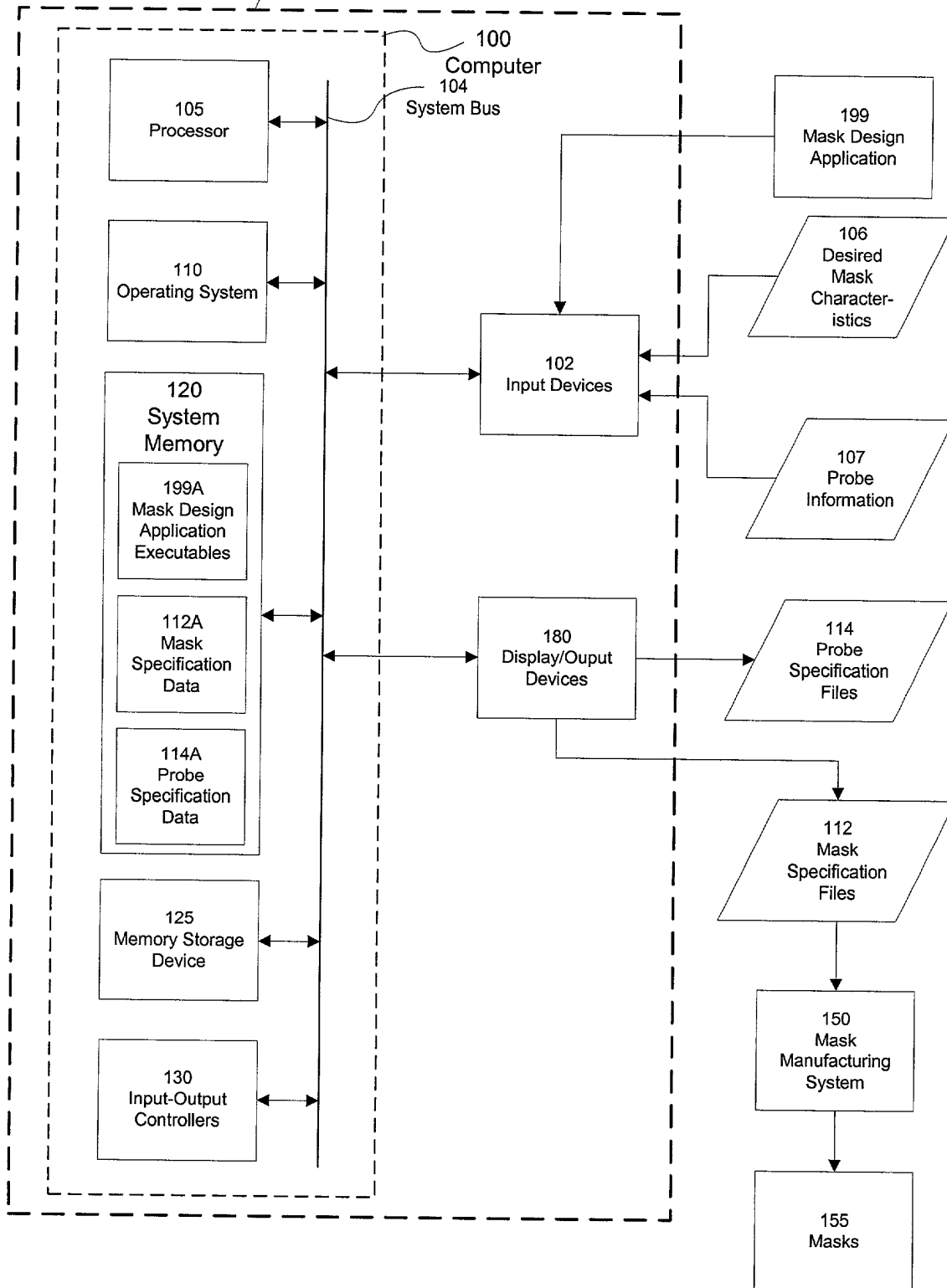


Diagram illustrating a square device 200. The device 200 is a square with a side length of e.g., 9.0 mm. Inside the device 200 is a square 205, which contains a central square 210A. The side length of the inner square 210A is e.g., 6 mm. The diagram shows the device 200 with its dimensions and the internal structure.

214

Dicing Offset
e.g., 3 mm

e.g., 45.0 mm

e.g., 45.0 mm

210A 210B 210C 210D 210E

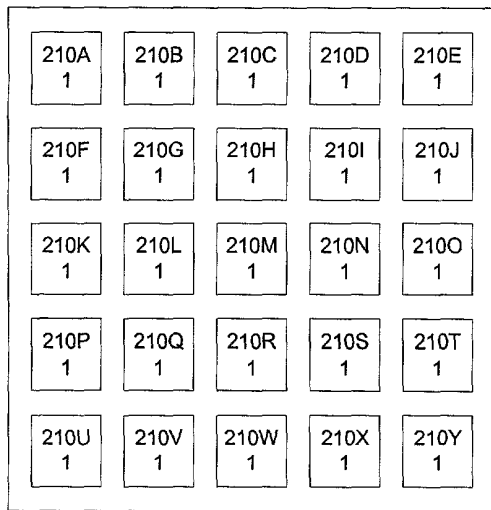
210F 210G 210H 210I 210J

210K 210L 210M 210N 210O

210P 210Q 210R 210S 210T

210U 210V 210W 210X 210Y

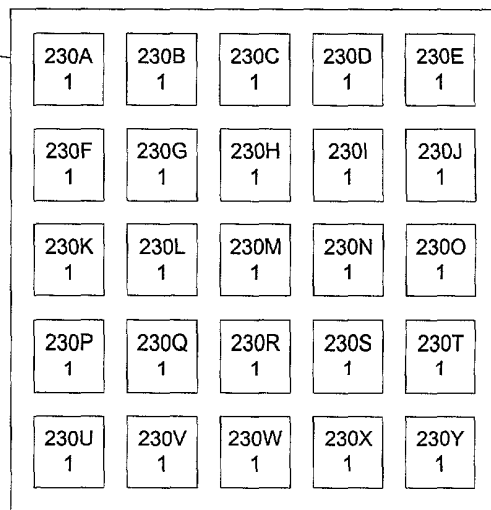
FIGURE 2C



155A-1
Mask

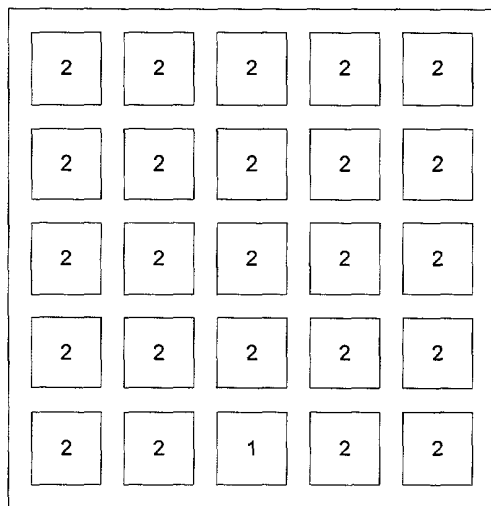
240
Wafer

FIGURE 2D



212
Dicing Offset
e.g., 3 mm

FIGURE 2G



155A-2
Mask

240
Wafer

FIGURE 2H

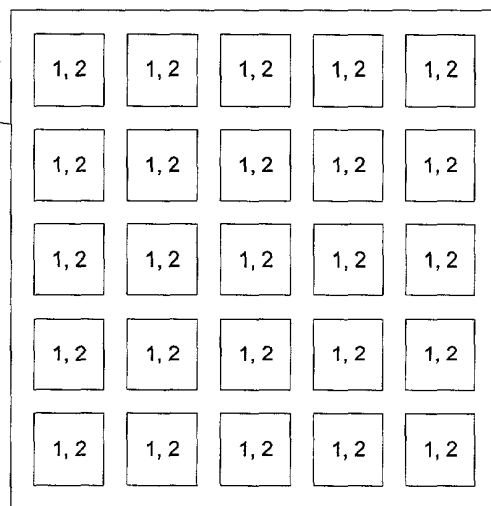
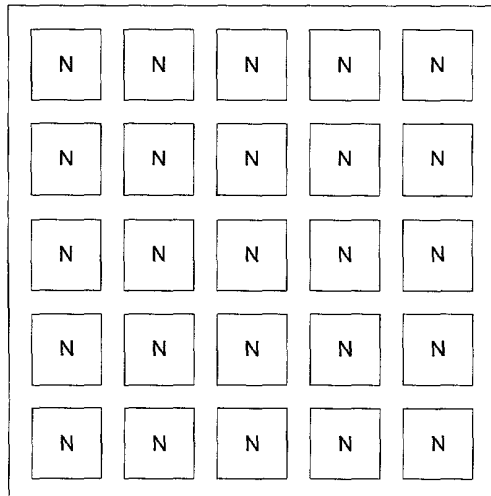


FIGURE 2E



155A-N
Mask

240
Wafer

FIGURE 2F (PRIOR ART)

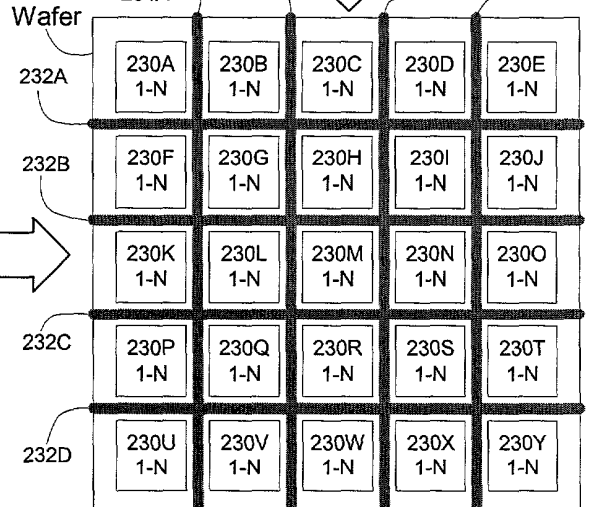
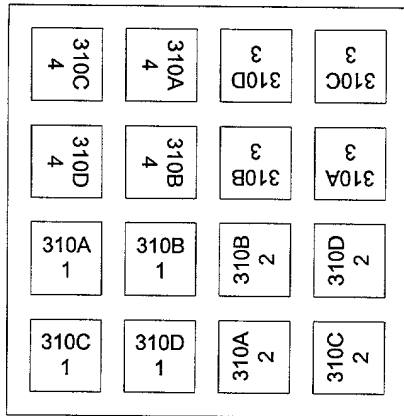


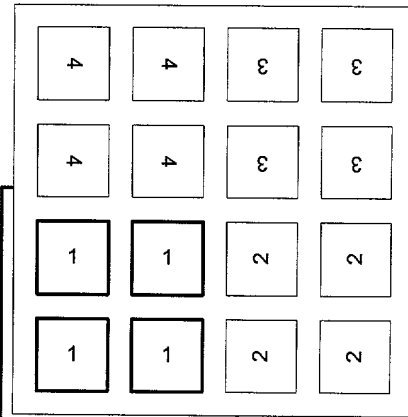
FIGURE 3A



155B
Mask

340
Wafer

FIGURE 3B



340
Wafer

FIGURE 3C

340
Wafer

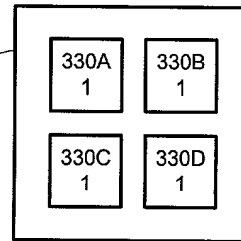


FIGURE 3C

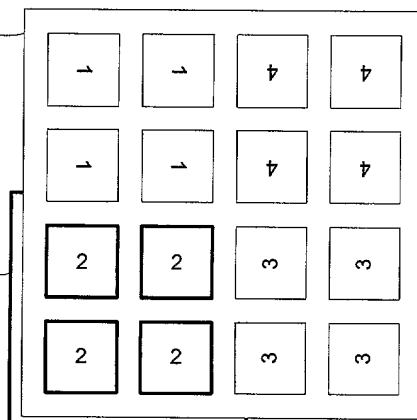
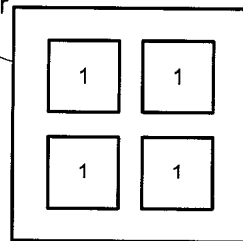
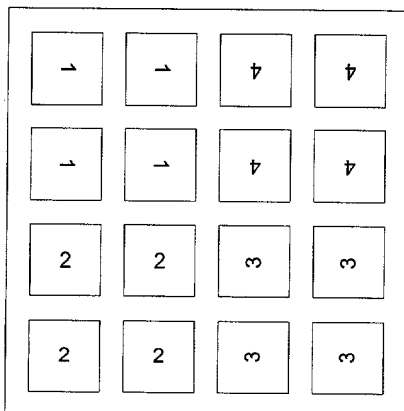
155B
Mask

340
Wafer

FIGURE 3D

155B
Mask

340
Wafer



312
Dicing Offset
e.g., 3 mm

FIGURE 3E

340
Wafer

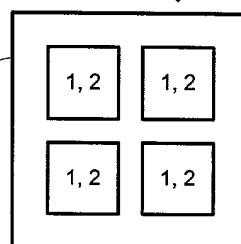


FIGURE 3F

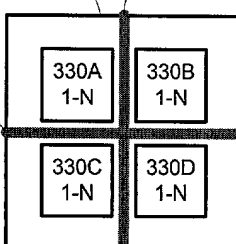


FIGURE 4A

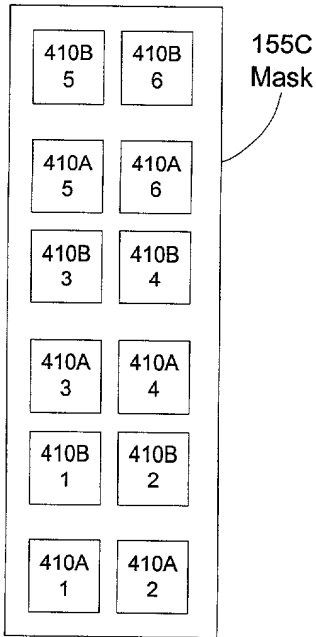


FIGURE 4B

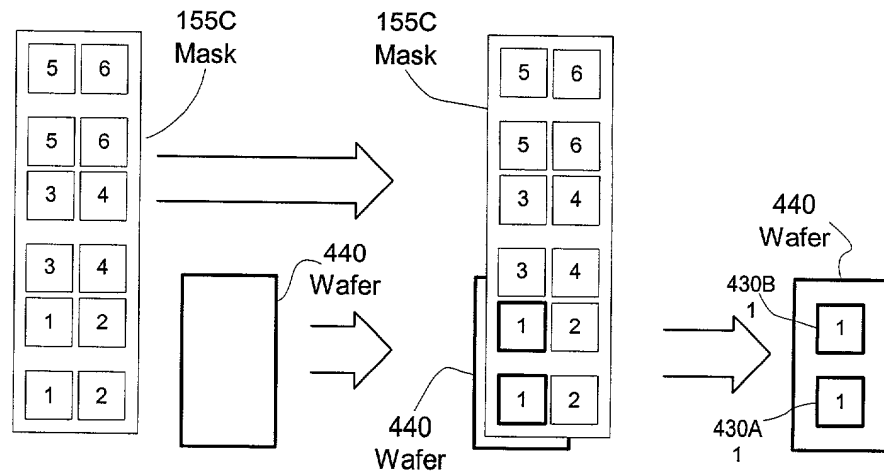


FIGURE 4C

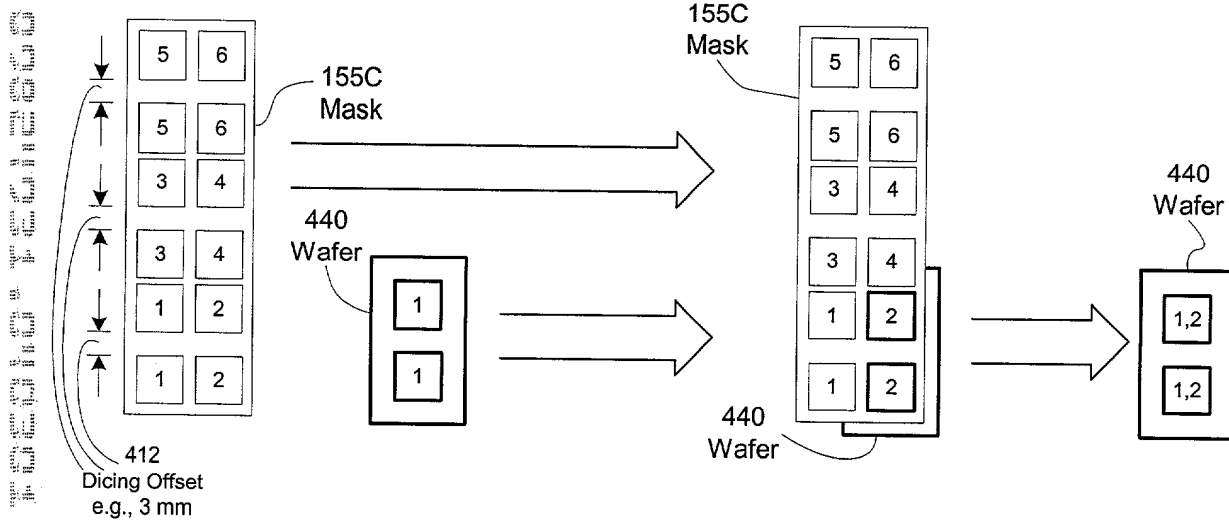


FIGURE 4D

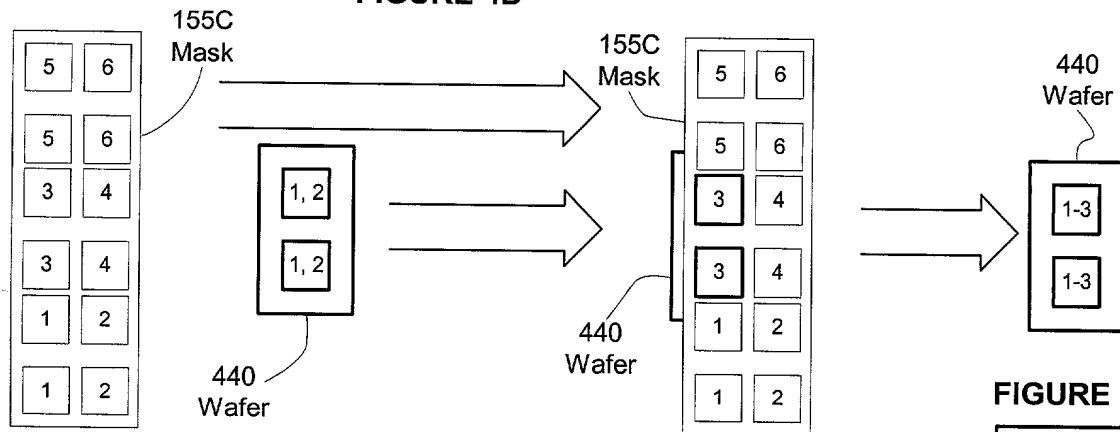


FIGURE 4E

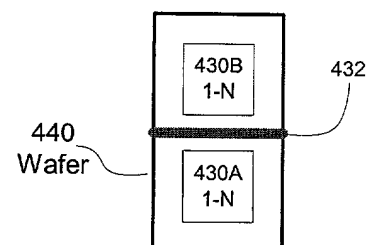


FIGURE 5A

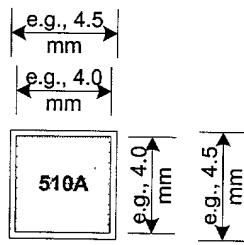


FIGURE 5B

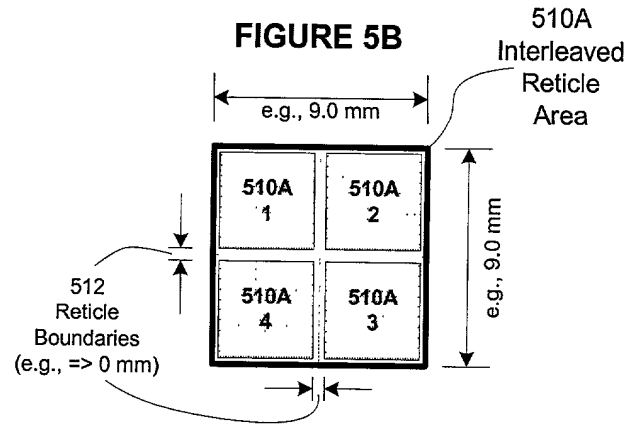


FIGURE 5C

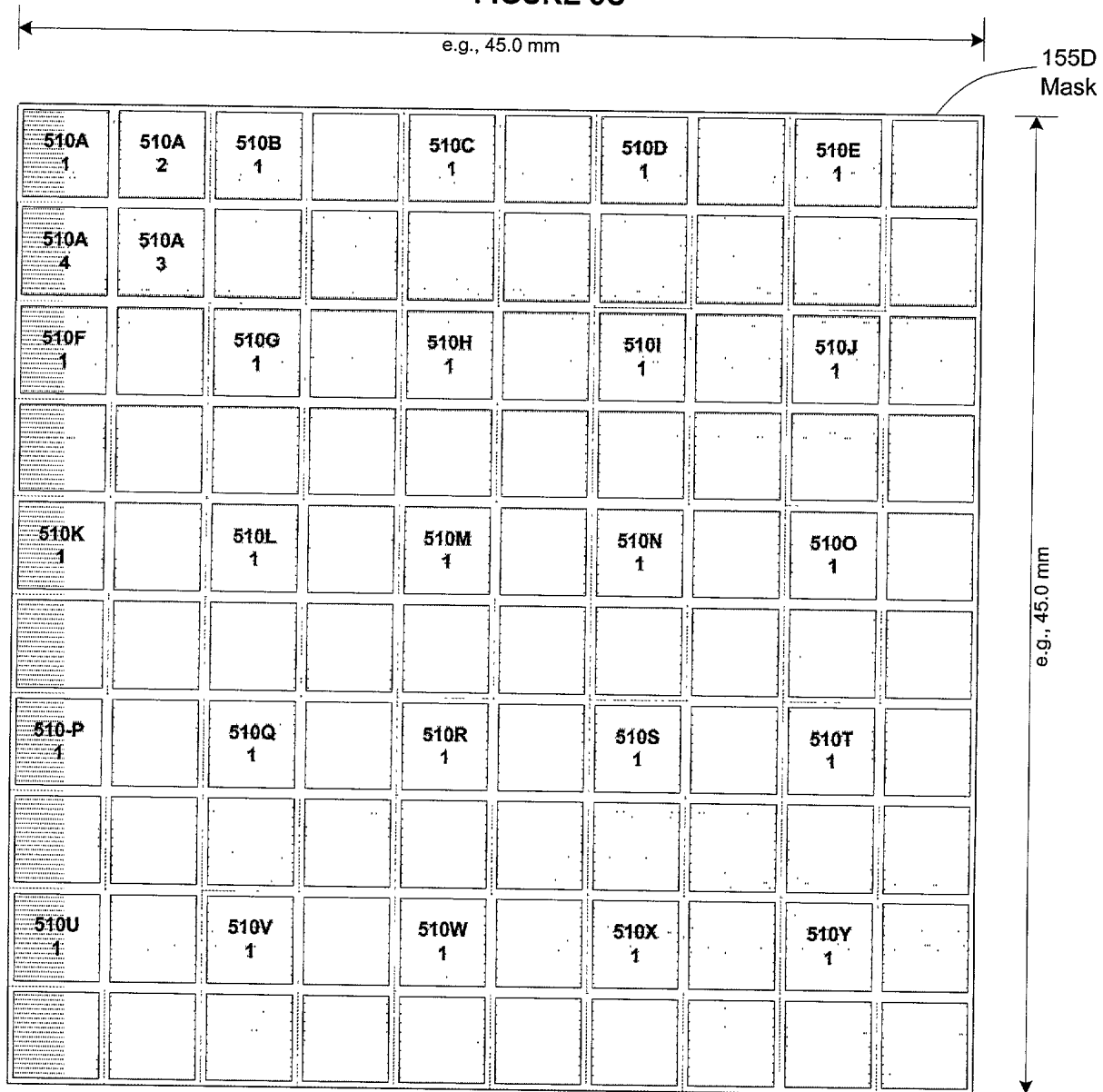


FIGURE 6A

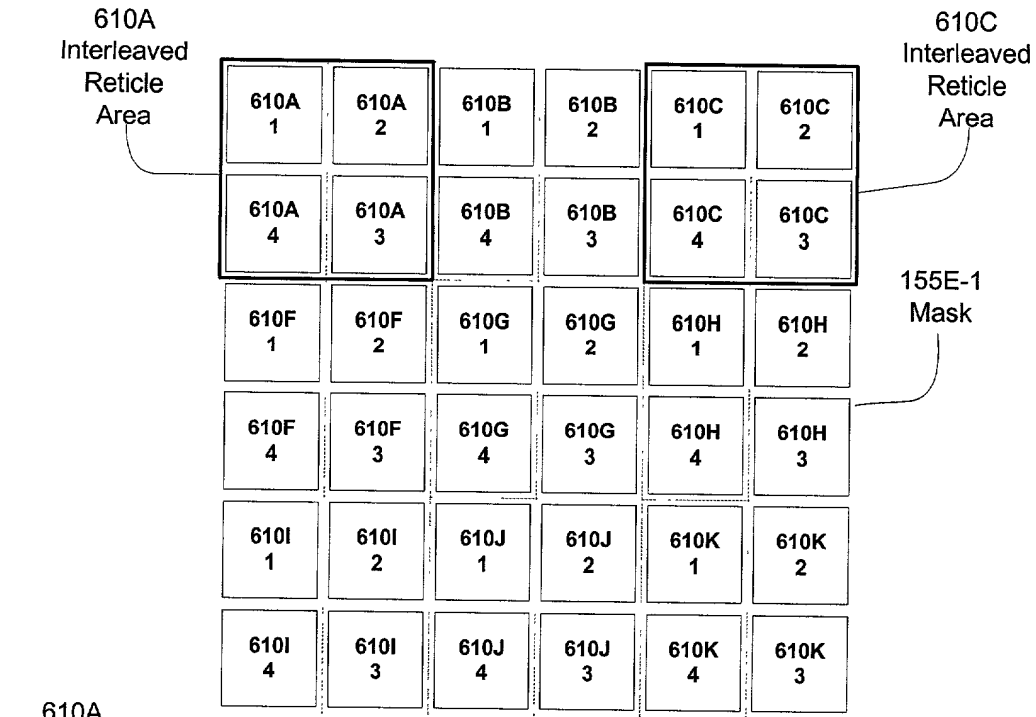


FIGURE 6B

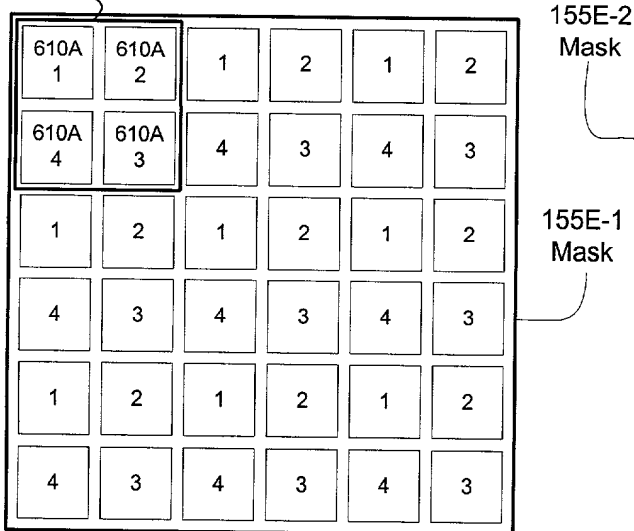


FIGURE 6C

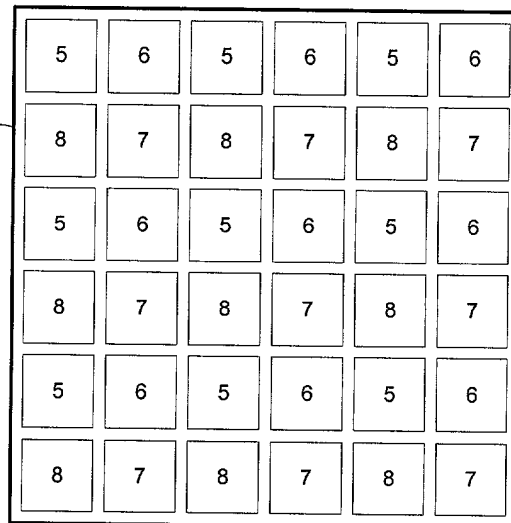


FIGURE 6D - STEP 1

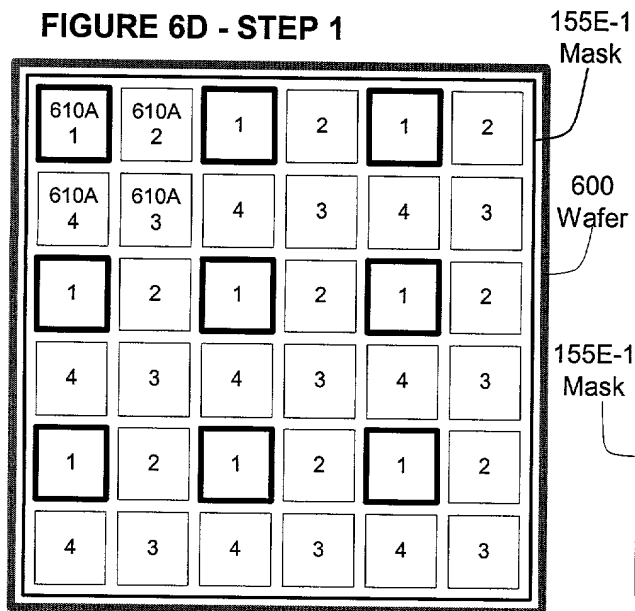


FIGURE 6E - STEP 2

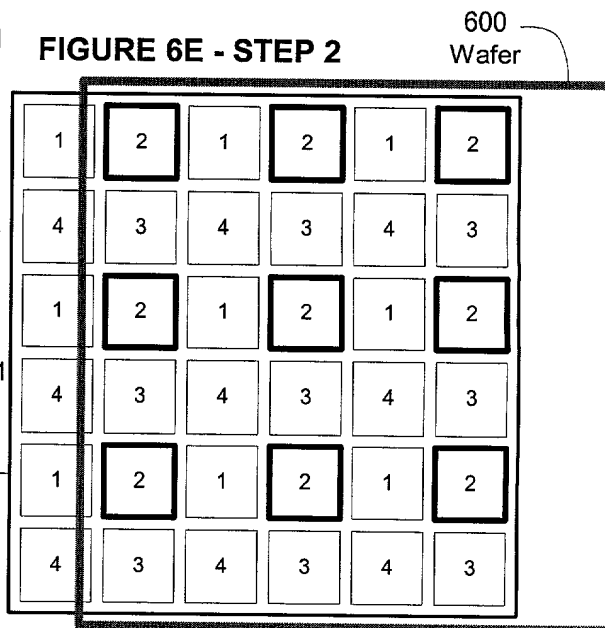


FIGURE 6F - STEP 3

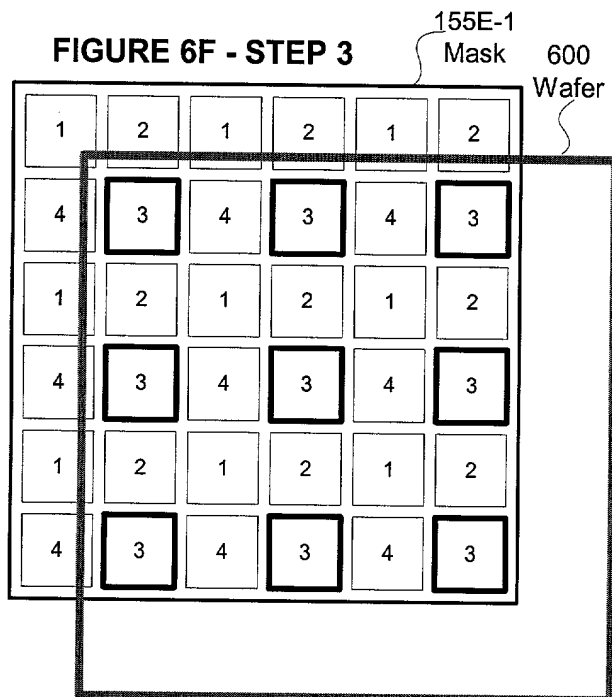


FIGURE 6G - STEP 4

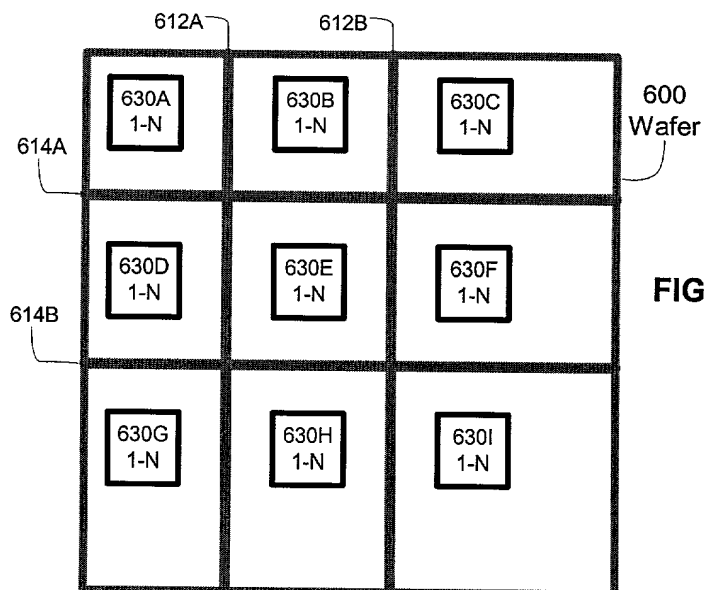
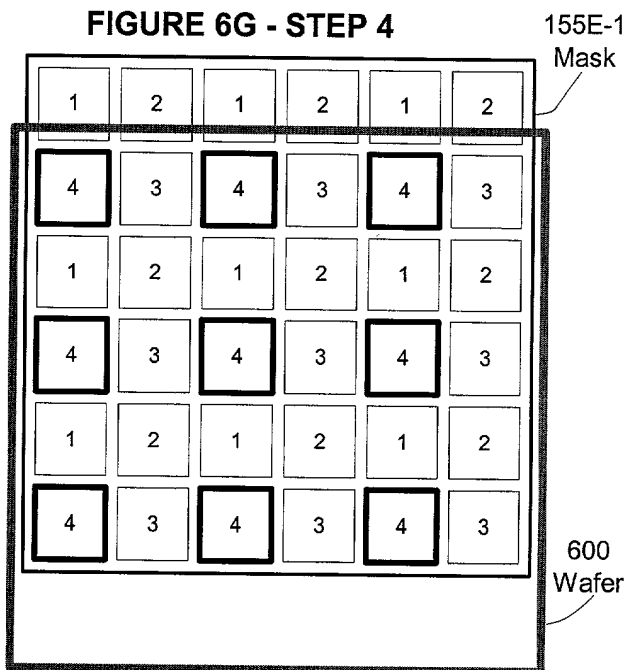
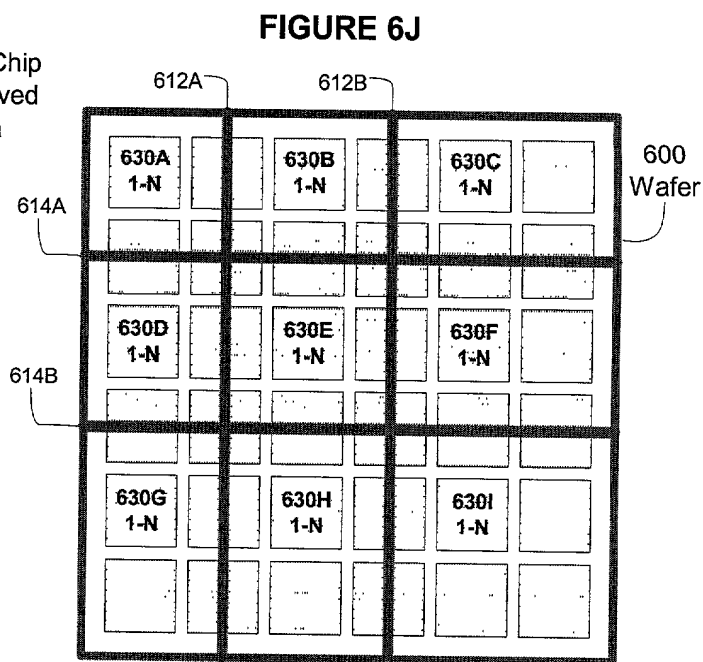
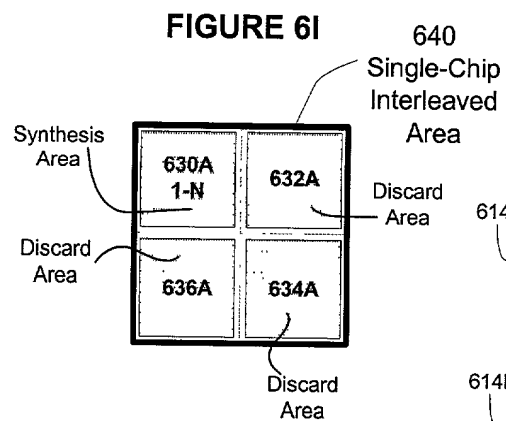


FIGURE 6H



645A Interleaved Reticle Area

FIGURE 6K

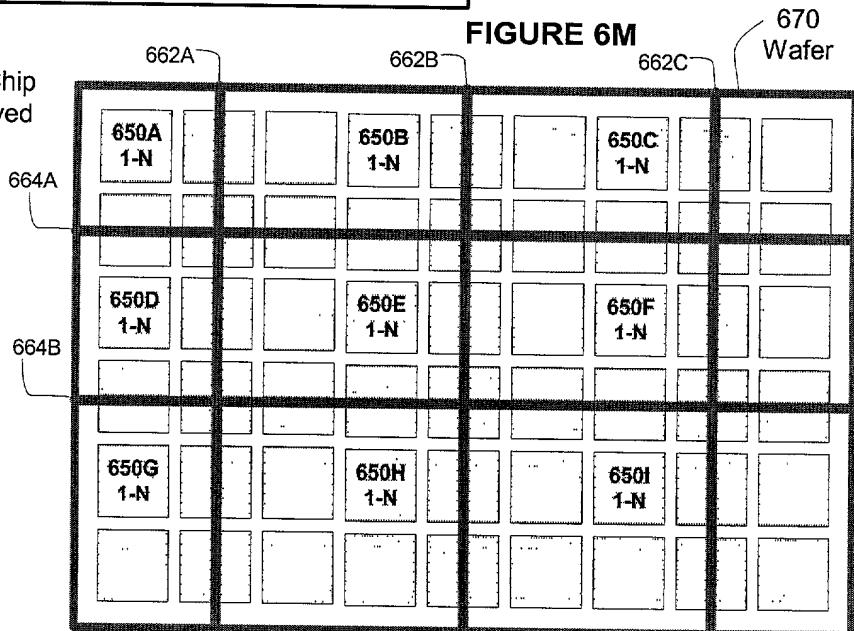
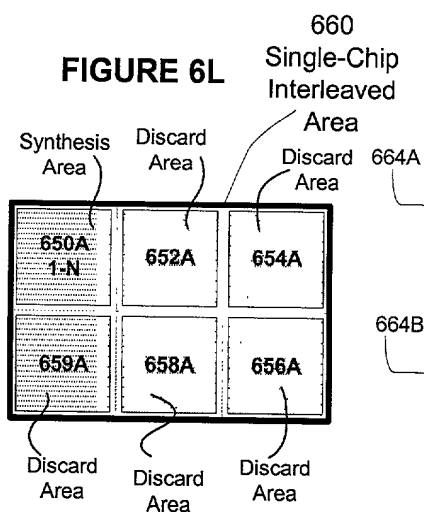
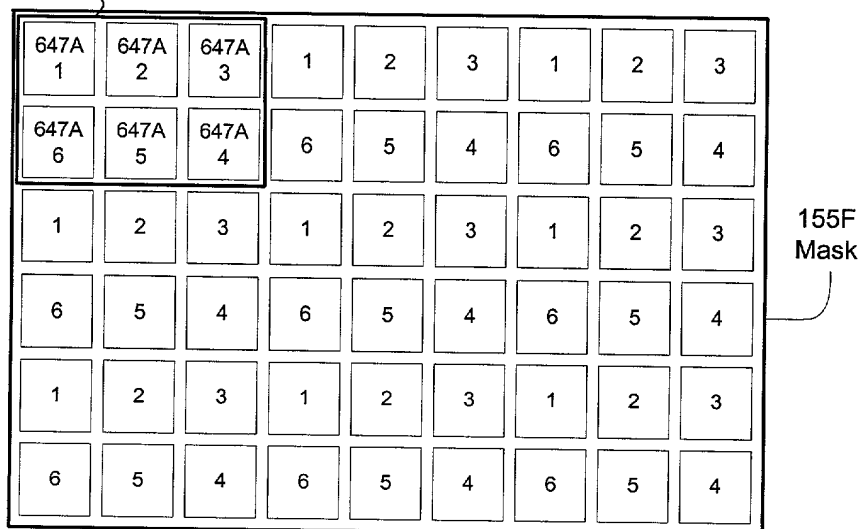


FIGURE 7

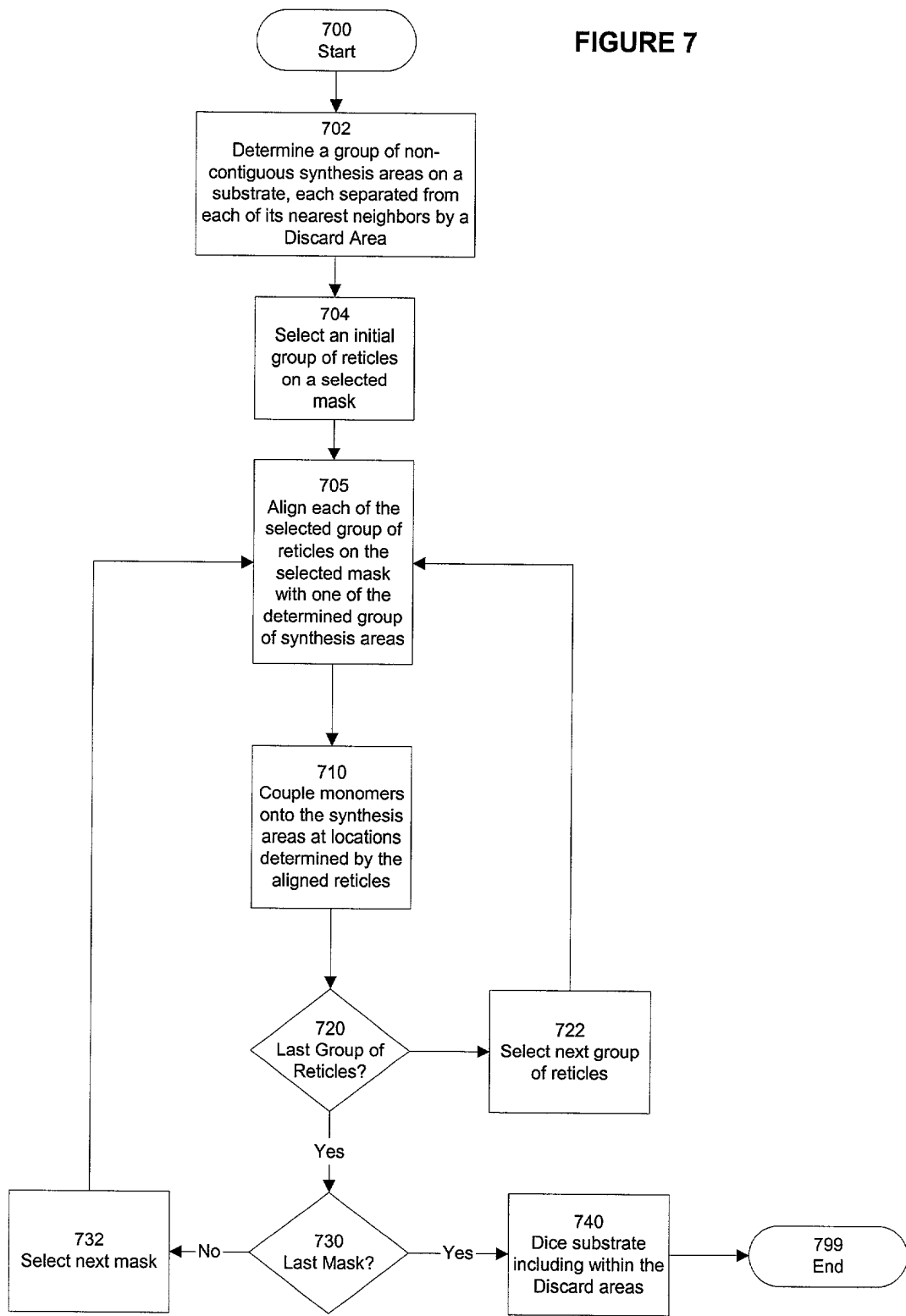


FIGURE 8

